

Nonlinear problems of stability cylindrical panels with imperfection

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Abstract

© Published under licence by IOP Publishing Ltd. The article examines a problem of large deflections and elastic jumps from one equilibrium state to another in a thin-walled structure in the form of a thin elastic cylindrical panel with imperfections in the form of a small-scale additional wave formation. An analytical solution of the problem was obtained and an analysis of the influence of geometric characteristics on the panel deformation process was made.

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